Ministry of Northern Development and Mines

Ontario

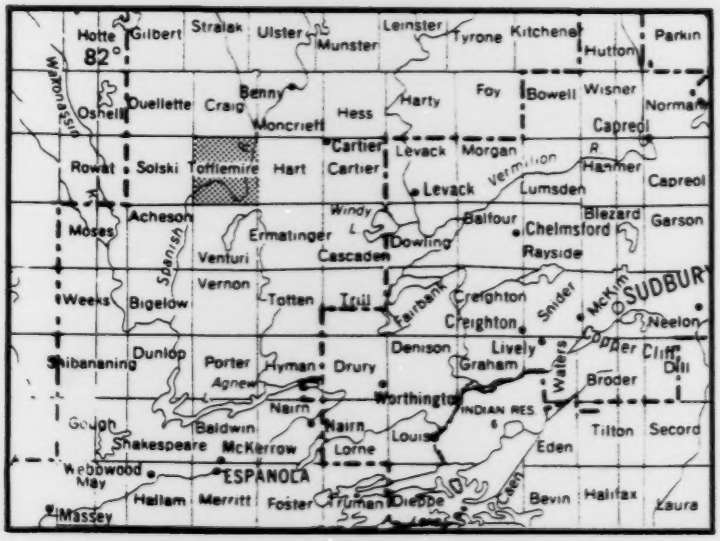
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 456

TOFFLEMIRE TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO Mineral Development

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the gov-

90-00704/

NTS Number 41 I/12

Mining Claim Map Number M.1199

This project is part of the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1989: Tofflemire Township, Ontario Geological Survey, Data Inventory Folio 456, compiled by the staff of the Resident Geologist's Office, Sudbury; 14 pages and 2 Maps.

Original Compilation by: Jerome, Lucille, March, 1988

Date	Page Revised	Revised by

Date	Page Revised	Revised by

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

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ACCOMPANYING MAPS

Property Location Map 1
Exploration Data Map 1

Map Scale 1: 31 680 or 1 inch to ½ mile

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	L. J.
2	Assessment Files Research Office, Toronto	N. A.	L. J.
3	ODM General Index; 9 Volumes	Yes	L. J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	L. J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	L. J.
6	ODM Industrial Mineral Reports	Yes	L. J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	L. J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	L. J.
9	Newspaper Clippings File	No	L. J.
10	GSC Index to Publications	No	L. J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	L. J.
12	OGS Index Maps	Yes	L. J.
13	Source Mineral Deposit Records (O.G.S.)	Yes	L. J.
14	Author - Subject Articles File	Yes	L. J.
15	Miscellaneous Papers: ODM & OGS	Yes	L. J.
16	ODM Geological Circulars: OGS Study Series	Yes	L. J.
17	ODM Preliminary Reports: ODM Bulletins	No	L. J.
18	ODM – OGS Open File Reports	Yes	L. J.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	L. J.
20	OGS Aggregate Resources Inventory Papers	No	L. J.
21	OGS Mineral Potential Maps	Yes	L. J.
22	Theses on File, Sudbury	Yes	L. J.
23	Aerial Photographs on File, Sudbury	Yes	L. J.

METALS AND MINERALS REFERENCES LIST

- Δ anh . . . . . Anhydrite
- Δ ank . . . . . Ankerite
- Δ anna . . . . . Annabergite
- Δ ap. . . . . Apatite
- Δ arg . . . . . Argentite
- Δ As . . . . . Arsenic
- Δ asp . . . . . Arsenopyrite
- Δ asb . . . . . Asbestos
- Δ ba. . . . . Barite
- Δ be. . . . . Beryl
- Δ Bi. . . . . Bismuth
- Δ bn . . . . . Bornite
- Δ bran . . . . . Brannerite
- Δ bruc . . . . . Brucite
- Δ Cd . . . . . Cadmium
- Δ calc. . . . . Calcite
- Δ carb . . . . . Carbonate
- Δ cel . . . . . Celestite
- Δ cc. . . . . Chalcocite
- Δ cp. . . . . Chalcopyrite
- Δ ch. . . . . Chert
- Δ clay . . . . . Clay
- Δ Co . . . . . Cobalt
- Δ cob. . . . . Cobaltite
- Δ cb. . . . . Columbite
- Δ Cu . . . . . Copper
- Δ cor . . . . . Corundum
- Δ dol . . . . . Dolomite
- Δ ep. . . . . Epidote
- Δ ery . . . . . Erythrite
- Δ fel . . . . . Feldspar
- Δ fl . . . . . Fluorite (flurospar)
- Δ fu. . . . . Fuchsite
- Δ gn. . . . . Galena
- Δ gt . . . . . Garnet
- Δ goe . . . . . Goethite
- Δ Au . . . . . Gold
- Δ gf . . . . . Graphite
- Δ gl . . . . . Gravel
- Δ gyp. . . . . Gypsum
- Δ hem . . . . . Hematite
- Δ il . . . . . Ilmenite
- Δ Fe . . . . . Iron
- Δ IF. . . . . Iron Formation
- Δ jas . . . . . Jasper
- Δ kaol . . . . . Kaolinite (kaolin)
- Δ ky . . . . . Kyanite
- Δ Pb . . . . . Lead
- Δ lim . . . . . Limonite
- Δ Li. . . . . Lithium
- Δ mgst . . . . . Magnesite
- Δ mag . . . . . Magnetite
- Δ mc . . . . . Malachite
- Δ Mn . . . . . Manganese
- Δ mb . . . . . Marble
- Δ mar. . . . . Marcasite
- Δ ma . . . . . Marl
- Δ mi . . . . . Mica
- Δ ml . . . . . Millerite
- Δ mo . . . . . Molybdenite
- Δ Mo . . . . . Molybdenum
- Δ mon . . . . . Monazite
- Δ ne. . . . . Nephelite (nepheline)
- Δ nc. . . . . Niccolite
- Δ Ni. . . . . Nickel
- Δ Nb . . . . . Niobium
- Δ Pd . . . . . Palladium
- Δ peat . . . . . Peat
- Δ pent . . . . . Pentlandite
- Δ Pt. . . . . Platinum
- Δ py . . . . . Pyrite
- Δ pyl . . . . . Pyrochlore
- Δ pyrl . . . . . Pyrolusite
- Δ po . . . . . Pyrrhotite
- Δ q . . . . . Quartz
- Δ qcv . . . . . Quartz carbonate vein
- Δ ra. . . . . Radioactive minerals
- Δ RE . . . . . Rare Earths
- Δ sd. . . . . Sand
- Δ sgl . . . . . Sand and gravel
- Δ ss . . . . . Sandstone
- Δ scap . . . . . Scapolite
- Δ shee . . . . . Scheelite
- Δ serp . . . . . Serpentine
- Δ sh. . . . . Shale
- Δ sid . . . . . Siderite
- Δ si . . . . . Silica
- Δ Ag . . . . . Silver
- Δ sl . . . . . Slate
- Δ sm . . . . . Smaltite
- Δ sod . . . . . Sodalite
- Δ spec . . . . . Specularite
- Δ sp. . . . . Sphalerite
- Δ spd . . . . . Spodumene
- Δ staur . . . . . Staurolite
- Δ stib. . . . . Stibnite
- Δ st . . . . . Stone
- Δ talc. . . . . Talc
- Δ Te . . . . . Tellurium
- Δ td. . . . . Tetrahedrite
- Δ th. . . . . Thorite
- Δ Th . . . . . Thorium
- Δ thuc . . . . . Thucholite
- Δ ti . . . . . Titanite
- Δ Ti. . . . . Titanium
- Δ tour . . . . . Tourmaline
- Δ trap . . . . . Trap rock
- Δ W . . . . . Tungsten
- Δ uran . . . . . Uraninite
- Δ U . . . . . Uranium
- Δ verm . . . . . Vermiculite
- Δ Y . . . . . Yttrium
- Δ Zn . . . . . Zinc
- Δ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SEISMIC		
COMPANY/AUTHOR (file number)																				
1	Canadian Johns-Manville Co. (Tofflemire 0010)	55										55								
2	Burns, I. (Venturi 0010-C1)			77																
3	International Minerals and Chemical Corp. (Tofflemire 0011)											75		75[1]				75		
4	Union Carbide Exploration Ltd. (Venturi 0010-A1)	68																		

[1] No significant anomaly

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDIF FORM NO. 4

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

The Spanish River Carbonatite Complex lies within the townships of Tofflemire and Venturi. It has been prospected for tin, vermiculite, niobium and residual apatite. Vermiculite was found in the complex. For simplicity, the occurrence appears in the Venturi Township G.D.I.F. No. 432 and not in this publication.

GDIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

ODM GENERAL INDEX SEARCH

Words searched:

BURNS, ISAAC
CANADIAN JOHNS-MANVILLE CO.
INTERNATIONAL MINERALS AND CHEMICAL CORP.
TOFFLEMIRE TOWNSHIP
TOWNSHIP 108
UNION CARBIDE EXPLORATION LTD.

Index Volume	Listing:	Report Volume	Part	Page
4	Canadian Johns-Manville Co. Ltd.			
	Capital; officers; operations	59	2	1
9	International Minerals and Chemical Corp. (Canada) Ltd.			
	Venturi and Tofflemire Tps., Sudbury Dist.	MP 75		77
9	Tps. 107 & 108 Complex			
	Analysis, chem.	GR 157		92
	Analysis, modal	GR 157		93, 98
	Analysis, trace elements	GR 157		92

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D.	1965,67	Cartier Sheet	Map P.287	1" = 2 miles
Card, K. D., Innes, D. G.	1980	Bluewater Lake	OGS Map 2434	1" = 1/2 mile
	1976	Benny Area, Cartier-Carhess Lake Sheet	ODM Map P.1111	1" = 1/4 mile
		Benny Area, Spanish-Johnson Lakes Sheet	ODM Map P.1110	1" = 1/4 mile
Card, K. D., Lumbers, S. B.	1974,75	Sudbury-Cobalt Geological Compilation (revised)	OGS Map 2361	1" = 4 miles
Marmont, C.	1986	Geology of Tofflemire, Venturi and Vernon Townships	Map P.2960	1" = 1/4 mile
		GEOPHYSICAL MAPS		
GSC-ODM	1965	Aeromagnetic Map- Cartier	1524G	1" = 1 mile
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map of the Sudbury-Onaping Lake Area	OGS Map P.2482	1:100,000
ODM GSC	1965	Aeromagnetic Map Sudbury Sheet	7067G	1" = 4 miles
	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey, Sudbury	Map P.1610	1:250,000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
EMR	1975	Topographic Map, Cartier		1:50,000
Gartner, J. F.	1980	N.O.E.G.T.S. Data Base Map, Cartier	Map 5000	1:100,000
		N.O.E.G.T. Study 94, Cartier Area		
		N.O.E.G.T.S. General Construction Capability Map, Cartier	Map 5004	1:100,000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Sado, E. V., Carswell, B.	1987	Surficial Geology of Northern Ontario	OGS Map 2518	1:1,200,000
		MINERAL POTENTIAL MAPS		
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	OGS Map P.1512	1:250,000
Yundt, S. E. et al	1983	Industrial Minerals of Ontario	OGS Map P.2591	1:500,000
		GEOCHEMICAL MAPS		
		No data available March 28, 1988		
		GEOLOGICAL REPORTS AND MAPS		
Adlington, R.	1982	Tofflemire Township - Sudbury Data Series	Map P.2539	1" = 1/4 mile
Card, K. D., Innes, D. G.	1981	Geology of the Benny Area	GR 206	
Card, K. D., Innes, D. G. and Debicki, R. L.	1977	Stratigraphy, Sedimentology and Petrology of the Huronian Supergroup in the Sudbury-Espanola Area	OGS Study 16	
Guillet, G. R.	1962	Vermiculite in Ontario with an Appendix on Perlite	IMR 7	
Marmont, C.	1986	Geology of Tofflemire, Venturi and Vernon Townships	OFR 5624 Map P.2960	1" = 1/4 mile
Sage, R. P.	1987	Geology of Carbonatite-Alkalic Rocks Complexes in Ontario: Spanish River Carbonatite Complex	OGS Study 30	
Thomson, J. E.	1960	Uranium and Thorium Deposits at the Base of the Huronian System in the District of Sudbury	GR 1	

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Thurston, P. C. et al	1977	Geology of the Chapleau Area, Districts of Algoma, Sudbury and Cochrane	GR 157	pp. 92,93,98
Vos, M. A. et al	1987	Industrial Minerals of Northern Ontario	MDC 26	
Vos, M. A. and Smith, V.	1983	Industrial Minerals of Northern Ontario - Supplement 2	OFR 5439	pp. 106-107
		JOURNALS, ARTICLES, THESES, TECHNICAL REPORTS		
Boissonneau, A. N.	1968	Glacial History of Northeastern Ontario II. The Timiskaming-Algoma Area	C.J.E.S. Vol. 5	pp. 97-109
McLennan, S. M., Fryer, B. J. and Young, G. M.	1979	The Geochemistry of the Carbonate-Rich Espanola Formation (Huronian) with Emphasis on Rare Earth Elements	C.J.E.S. Vol. 16	pp. 230-239
Proudfoot, D. N.	1971	Petrology of the Carbonatite Complex in Tps. 107-108, Ontario	Sudbury Theses File	
Robertson, W. H. and Watkinson, D. H.	1974	Paleomagnetism of the Spanish River Alkalic Rock-Carbonatite Complex, Tps. 107 & 108, Ontario	C.J.E.S. Vol. 11	p. 795
Satterly, J.	1977	A Catalogue of the Ontario Localities Represented by the Mineral Collection of the Royal Ontario Museum	MP 70	p. 423

GDIF FORM NO.9

NOTES AND ADDENDA

AERIAL PHOTOGRAPHS INDEX

Scale 1" = 1/4 mile

Sudbury Files

Year	Roll	Line	Number
1973	14	4629	101-106
	21	4628	138-143
	23	4627	142-149
1959	11	4628	55-61
	65	4627	86-91

GDIF FORM NO.10

Ministry of
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and Mines

Ontario

ONTARIO GEOLOGICAL S

PROPERTY LOCATIO

GEOLOGICAL DATA INVENTOR

(Map 1 of 2)

TOFFLEMIRE TO

Scale 1:31 680

Kilometre 0.5 0 0.5

Mile 0.5 0 0.5

Ministry of Northern Development and Mines

Ontario

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 456

(Map 1 of 2)

TOFFLEMIRE TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

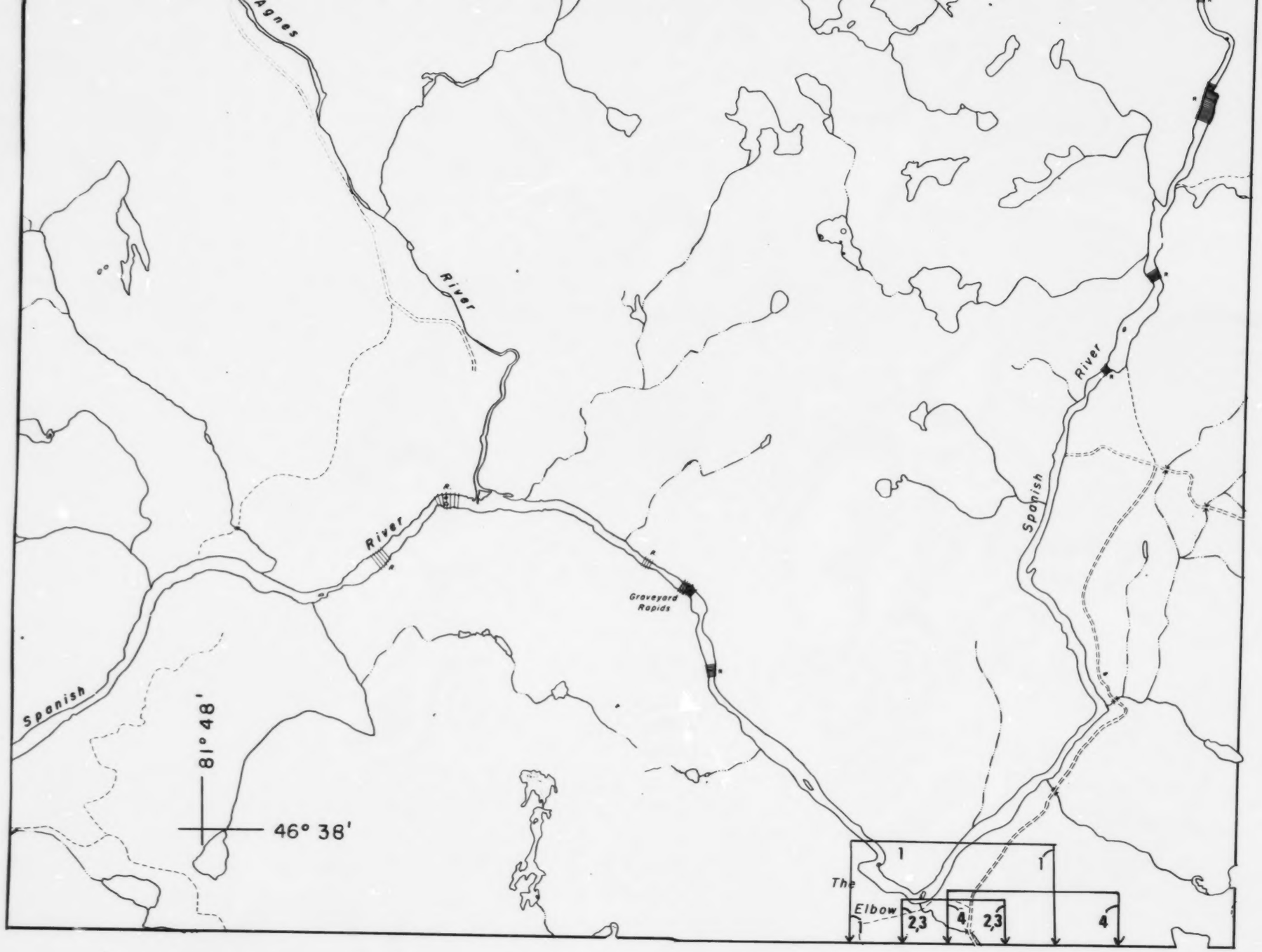
Mile 0.5 0 0.5 1 Mile

TOFFLEMIRE TOWNSH

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

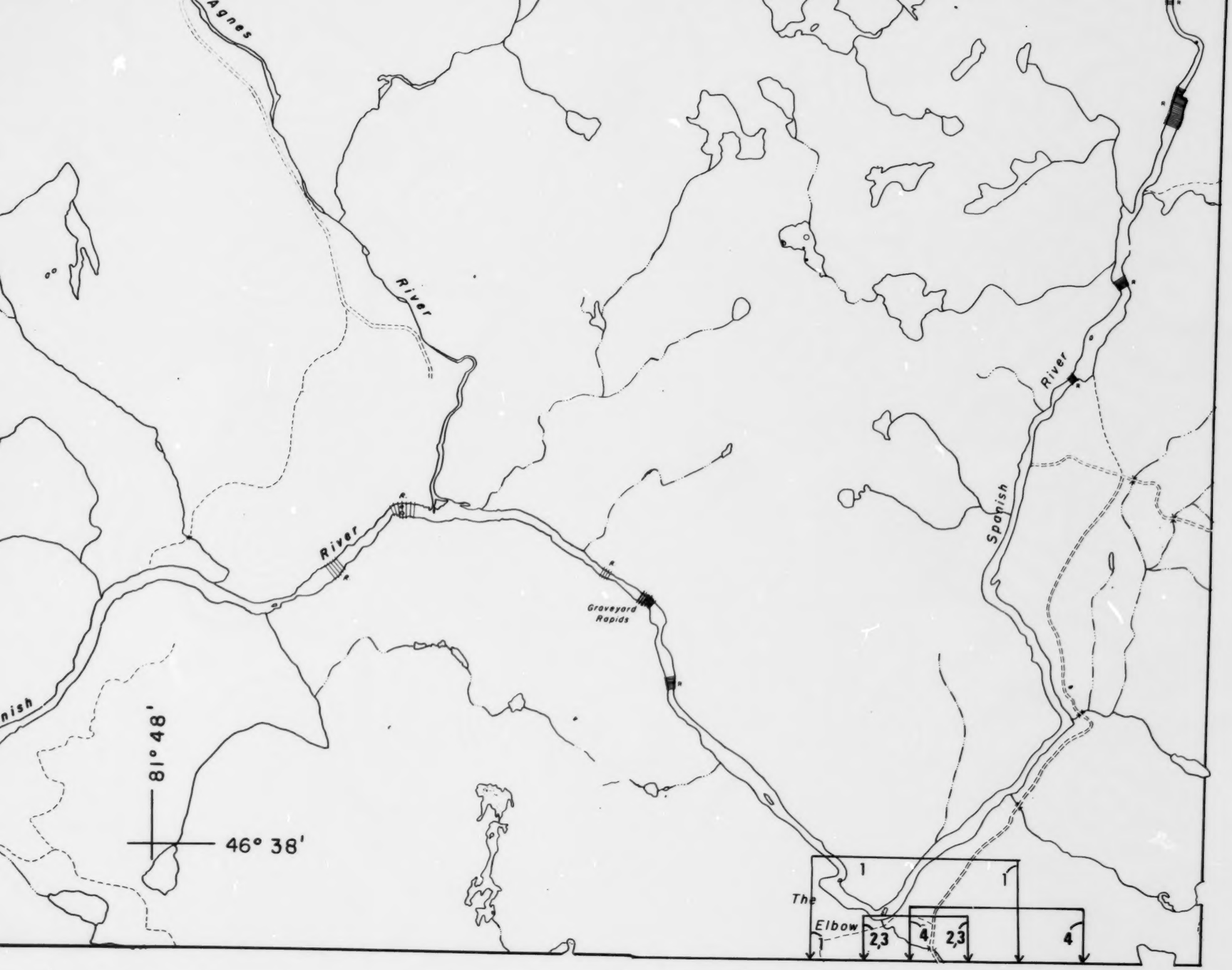
Mile 0.5 0 0.5 1 M



EXPLORATION DATA FILE AREAS

- ■ ① ⑥ — Reference number is always inside work area outli See listing in text pages.
- □ x ④ — Small area of exploration
- □ ★ — File covers whole township or area

TOFFLEMIRE TOWNSHIP



Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

- ■ ① ⑥ — Reference number is always inside work area outlined. See listing in text pages.
- □ x ④ — Small area of exploration
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TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly Length of anomaly along flight line
- Airborne electromagnetic anomaly Location of anomaly along flight line
- Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly

Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 456

(Map 2 of 2)

TOFFLEMIRE TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- 2 — Location of single drillhole, with reference number

GEOPHYSICAL ANOMALIES

- ☐ AM — Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
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- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio-frequency magnetic anomaly (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly

MISCELLANEOUS DATA

- ■ Trenching, pit
- ☐ Adit
- ☐ Open pit
- ☐ Rock quarry
- ☐ Sand and/or gravel pit
- ☐

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

TOFFLEMIRE TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

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- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- 2 — Location of single drillhole, with reference number
- 2 — Location of closely spaced group of drillholes, with reference number
- 2 — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- 2 — Property with drillholes which have not been plotted on map, with reference number
- 2 — Reverse circulation drillhole; churn drilling, with reference number